

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P293406

Luminaire Tested: **24GR-LD5-85-F125-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293406
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33304)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-85-F125-UNV-L92765-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7092.0 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

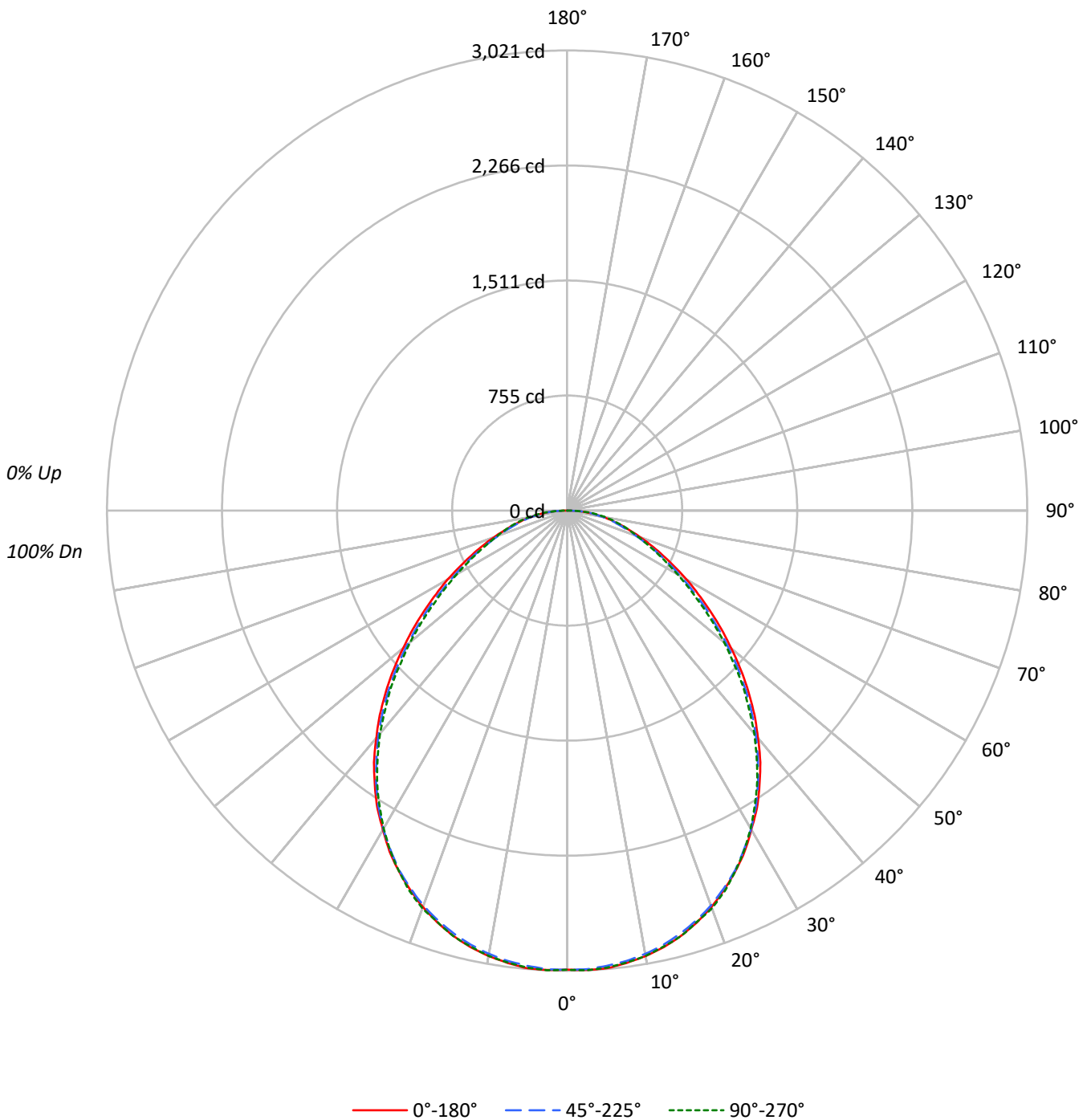
Input Watts (W): 62.589
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62					62			
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	73	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42					42			
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33					33			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4055	4055	4055
5°	4074	4051	4068
10°	4057	4038	4056
15°	4025	4004	4029
20°	3966	3951	3979
25°	3881	3871	3879
30°	3758	3751	3742
35°	3616	3589	3574
40°	3423	3384	3357
45°	3202	3143	3105
50°	2942	2863	2815
55°	2684	2585	2509
60°	2437	2306	2246
65°	2195	2072	2036
70°	2010	1880	1932
75°	1879	1792	1925
80°	1864	1829	2010
85°	1899	1917	2191



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.3	4.0
10°-20°	811.0	11.4
20°-30°	1198.1	16.9
30°-40°	1362.1	19.2
40°-50°	1272.0	17.9
50°-60°	989.2	13.9
60°-70°	656.4	9.3
70°-80°	379.8	5.4
80°-90°	138.1	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2294.3	32.4
0°-40°	3656.4	51.6
0°-60°	5917.7	83.4
0°-90°	7092.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7092.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3014	3014	3014	3014	3014	
5°	3016	3001	3000	3005	3012	286
15°	2890	2876	2874	2873	2892	814
25°	2614	2603	2607	2602	2613	1202
35°	2202	2190	2185	2169	2176	1374
45°	1683	1669	1652	1631	1632	1297
55°	1144	1127	1102	1073	1070	1026
65°	690	668	651	638	640	689
75°	361	352	345	360	370	387
85°	123	121	124	141	142	134
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3014.1	3014.1	3014.1	3014.1	3014.1
2.5°	3018.5	3009.7	3014.1	3010.8	3020.8
5°	3016.3	3000.8	2999.7	3005.2	3011.9
7.5°	2995.3	2978.6	2982.0	2982.0	2993.0
10°	2969.8	2953.1	2955.3	2956.5	2968.6
12.5°	2935.4	2918.8	2919.9	2918.8	2931.0
15°	2889.9	2875.5	2874.4	2873.3	2892.2
17.5°	2834.5	2814.6	2821.2	2822.3	2832.3
20°	2770.2	2754.7	2759.1	2758.0	2779.1
22.5°	2693.7	2682.6	2686.0	2683.8	2703.7
25°	2613.9	2602.8	2607.3	2601.7	2612.8
27.5°	2524.1	2516.4	2511.9	2508.6	2516.4
30°	2418.8	2414.4	2414.4	2400.0	2408.8
32.5°	2319.0	2304.6	2304.6	2299.1	2293.6
35°	2201.5	2190.5	2184.9	2169.4	2176.0
37.5°	2084.0	2058.5	2056.3	2044.1	2044.1
40°	1948.8	1934.4	1926.6	1913.3	1911.1
42.5°	1820.2	1805.8	1792.5	1770.3	1765.9
45°	1682.8	1669.4	1651.7	1630.7	1631.8
47.5°	1546.4	1527.6	1510.9	1485.4	1482.1
50°	1405.6	1392.3	1367.9	1345.8	1344.6
52.5°	1273.7	1252.6	1230.5	1203.9	1203.9
55°	1144.0	1127.4	1101.9	1073.1	1069.7
57.5°	1019.8	1004.3	975.5	954.4	948.9
60°	905.7	883.5	856.9	839.2	834.7
62.5°	791.5	771.5	751.6	733.8	732.7
65°	689.5	668.4	650.7	638.5	639.6
67.5°	597.5	579.8	559.8	556.5	557.6
70°	511.0	492.2	477.8	485.5	491.1
72.5°	429.0	419.0	409.0	420.1	427.9
75°	361.4	352.5	344.8	360.3	370.2
77.5°	299.3	292.7	291.5	304.8	313.7
80°	240.6	232.8	236.1	251.6	259.4
82.5°	182.9	177.4	178.5	197.3	202.9
85°	123.0	120.8	124.2	140.8	141.9
87.5°	65.4	65.4	67.6	77.6	74.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)